What is claimed is:

1. A liquid material supply system comprising:

a supply device for sucking liquid material from a storage tank or another reservoir and supplying the sucked material under high pressure;

a pressure reducing valve having a pressure reduction ratio that can be set;

a primary supply line connecting the outlet port of the supply device to the pressure reducing valve;

a discharger for discharging a constant amount of liquid material to a work;

a secondary supply line connecting the pressure reducing valve to the inlet port of the discharger;

an on-off valve connected to the secondary supply line;

a controller connected to the on-off valve;

a pressure sensor for detecting the pressure substantially at the inlet port of the discharger and outputting a pressure signal to the controller so that the controller can close and open the on-off valve if the detected pressure exceeds a set upper limit and falls below a set lower limit, respectively; and

an accumulator connected to the secondary supply line between the on-off valve and the inlet port of the discharger so as to prevent the pressure substantially at the inlet port from exceeding the upper limit and falling below the lower limit in a short time with the pressure reduction ratio so set that the pressure is lower than for the full flow through the secondary supply line while the discharger is operating.